



US 20180339234A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2018/0339234 A1**
Vance et al. (43) **Pub. Date: Nov. 29, 2018**(54) **SYSTEM AND METHODS FOR KINETIC
ROTATION OF A RIDE VEHICLE**(71) Applicant: **Universal City Studios LLC**, Universal
City, CA (US)(72) Inventors: **Eric Alan Vance**, Orlando, FL (US);
Michael Davies Habersetzer, Orlando,
FL (US)(21) Appl. No.: **15/606,846**(22) Filed: **May 26, 2017****Publication Classification**(51) **Int. Cl.**
A63G 31/08 (2006.01)
A63G 31/00 (2006.01)
A63G 3/02 (2006.01)
A63G 1/34 (2006.01)
A63G 1/24 (2006.01)(52) **U.S. Cl.**CPC **A63G 31/08** (2013.01); **A63G 31/007**
(2013.01); **A63G 1/24** (2013.01); **A63G 1/34**
(2013.01); **A63G 3/02** (2013.01)

(57)

ABSTRACT

A ride system in accordance with present embodiments includes a flume providing a flow path and one or more vehicles configured to accommodate one or more passengers and configured to move along the flow path in the flume. The ride system also includes one or more objects protruding into the flow path, wherein the one or more objects are positioned in the flow path such that the one or more objects are configured to contact a vehicle of the one or more vehicles as the vehicle moves along the flow path and at a contact location on an exterior of the vehicle, wherein the contact location is spaced apart a distance from a center of mass of the vehicle to change a direction or orientation of the vehicle after the one or more objects contact the vehicle at the contact location.

